

# Masters Degree Programmes at UCSC

The UCSC presents a unique opportunity for those interested in obtaining a postgraduate qualification from the prominent metropolitan university in Sri Lanka and a Centre of Excellence and of international repute in Computing. A Faculty of over fifty in-house lecturers and visiting professionals will conduct the course, leading to a globally recognized degree.

The University of Colombo School of Computing (UCSC) was established on the 1<sup>st</sup> of September 2002 by the merger of the Institute of Computer Technology (ICT) and the Department of Computer Science (DCS) both of the University of Colombo. The Master of Science programme has a long history at UCSC, starting with the original programme nearly two decades ago.

## Master of Computer Science (MCS)

The MCS Programme is designed for CS/IT graduates who wish to acquire a research focused postgraduate qualification in Computer Science. This intensive programme in Computer Science provides specialized theoretical and practical knowledge for a graduate of the same discipline. While consolidating and updating knowledge, this also provides a stepping stone for further research in the field of his or her choice giving the opportunity to investigate certain areas of current research more deeply.

### Duration:

Two year part time course of four semesters (15 weeks per semester):  
Maximum intake – 30, Fridays 5.30 pm - 7.30 pm and Saturdays 9am-4pm.

### Entry Qualifications:

- A Degree in Computer Science(CS) or Information Technology(IT) from a recognized University or,
- Any other academic or professional qualification judged equivalent to a degree in CS/IT by the Senate of the University of Colombo.

### SEMESTER 1 (Compulsory courses):

Course	Credits
Advanced Algorithms	3
Advanced Software Engineering	3
Advanced Database Systems	3
Advanced Concepts in Data Communication Networks	3

### SEMESTER 2 (Compulsory courses):

Course	Credits
Theory of Programming Languages	3
Cryptographic Systems	3
Enterprise Web Architectures	3
Data and Knowledge Engineering	3

### SEMESTER 3 (Compulsory courses):

Course	Credits
Project Management and Professional issues in ICT	2
Individual or Group Project	Group Project (4) / Individual Project (10)

### Optional Courses (may differ in each year):

To select at least 2 courses from the following:

- Advanced Computer Graphics and Vision
- Natural Algorithms
- Distributed Systems
- Computational Pattern Recognition
- Software Quality Assurance
- Concurrent Programming
- Human Computer Interaction
- Research Methodology

### SEMESTER 4 (Compulsory courses):

Course
Continuation of Individual or Group Project

### Optional Courses (may differ in each year):

To select at least 2 courses from the following:

- e-Learning Concepts and Technology
- Wireless Ad-Hoc and Sensor Networks
- High Performance Computing
- Natural Language Processing
- Theory of Computing
- Formal Methods and Software Verification
- Mobile Computing
- Philosophy of Science

### Additional Credits obtainable via:

- ❖ Refereed Publication in an International Conference – (2 credits per paper)
- ❖ Refereed Publication in a National Conference – (1 credit per paper)
- ❖ Seminar Presentation – 1 credit

### The award of MCS Degree:

A student who has satisfied the following conditions shall be deemed to have qualified to obtain the Degree of Master of Computer Science:

- Has accumulated a minimum of 50 credits.
- Has obtained a minimum of 2.0 of GPA.
- Has obtained a pass for the individual or Group project.

A student who has obtained minimum of 3.25 GPA shall be awarded a Distinction Pass.

**Course Fee: Rs 200,000 payable at the time of registration and in full, and a refundable library deposit of Rs. 2,500.**

### Application Procedure:

Admission to the above course will be made on the basis of a selection test followed by an interview. The medium of instruction will be in English and as such a good working knowledge of English is expected from the candidates. Those awaiting results may also apply, but they would be eligible to be admitted to the programme only if their results are officially available prior to the date of interview.

Application forms and further information is available to be downloaded at [www.ucsc.cmb.ac.lk/pg](http://www.ucsc.cmb.ac.lk/pg), or may be collected at the reception of the UCSC. Completed applications forms are to be handed over to the Assistant Registrar, Academic and Publications with a receipt for Rs. 400 issued by the Shroff's office, UCSC.

The selection test for applicants will be held on 19<sup>th</sup> July 2008 at the assigned examination centre.

The names of applicants who have passed the selection test will be published along with the date and time of interview and the venue, on the UCSC website in due course. Those who present themselves for the interview should bring the relevant originals of supporting documents and referee reports along with them. Sitting and/or passing the selection test does not guarantee admission to the MCS programme.

Only those who are successful at the interview will be notified in due course for registration.

### Important Dates:

Close of applications	- 11 <sup>th</sup> July 2008
Selection Test	- 19 <sup>th</sup> July 2008
Interview	- 2 <sup>nd</sup> and 3 <sup>rd</sup> August 2008
Notification	- 15 <sup>th</sup> August 2008
Registration dead line	- 05 <sup>th</sup> September 2008
Semester 1 begins	- 19 <sup>th</sup> September 2008

All information contained herein is subject to interpretation by relevant UCSC By-Laws and Regulations.